

41

OIFE

RAW SEQUENCE LISTING

DATE: 08/21/2001

PATENT APPLICATION: US/09/838,718A

TIME: 08:14:11

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF3\08212001\I838718A.raw

ENTERED

3 <110> APPLICANT: Steidler, Lothar
 4 Remaut, Erik R.
 5 Fiers, Walter R.
 7 <120> TITLE OF INVENTION: USE OF A CYTOKINE-PRODUCING LACTOCOCCUS STRAIN TO TREAT COLITIS
 9 <130> FILE REFERENCE: 2676-4779US
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/838,718A
 C--> 11 <141> CURRENT FILING DATE: 2001-04-19
 11 <150> PRIOR APPLICATION NUMBER: PCT/EP99/07800
 12 <151> PRIOR FILING DATE: 1999-10-06
 14 <150> PRIOR APPLICATION NUMBER: EP 98203529.7
 15 <151> PRIOR FILING DATE: 1998-10-20
 17 <160> NUMBER OF SEQ ID NOS: 8
 19 <170> SOFTWARE: PatentIn version 3.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 21
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Artificial Sequence
 26 <220> FEATURE:
 27 <223> OTHER INFORMATION: Description of Artificial Sequence: primer used for obtaining the

28 plasmid pT1MIL10
 30 <400> SEQUENCE: 1
 31 cagtacagcc gggaagacaa t 21
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 25
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Artificial Sequence
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: Description of Artificial Sequence: primer used for obtaining the

41 plasmid pT1MIL10
 43 <400> SEQUENCE: 2
 44 gcactagtta gcttttcatt ttgat 25
 47 <210> SEQ ID NO: 3
 48 <211> LENGTH: 21
 49 <212> TYPE: DNA
 50 <213> ORGANISM: Artificial Sequence
 52 <220> FEATURE:
 53 <223> OTHER INFORMATION: Description of Artificial Sequence: primer used for obtaining the

54 plasmid pT1TR5AH
 56 <400> SEQUENCE: 3
 57 ctgggtccctt ctcttggtga c 21
 60 <210> SEQ ID NO: 4
 61 <211> LENGTH: 53
 62 <212> TYPE: DNA
 63 <213> ORGANISM: Artificial Sequence

65 <220> FEATURE:

66 <223> OTHER INFORMATION: Description of Artificial Sequence: primer used for obtaining
the
67 plasmid pT1TR5AH

RAW SEQUENCE LISTING

DATE: 08/21/2001

PATENT APPLICATION: US/09/838,718A

TIME: 08:14:11

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF3\08212001\I838718A.raw

```

69 <400> SEQUENCE: 4
70 ccactagtct attaatgatg atgatgatga tgcgcagtac ctgagtcctg ggg          53
73 <210> SEQ ID NO: 5
74 <211> LENGTH: 5230
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Description of Artificial Sequence: plasmid pTREX1
81 <400> SEQUENCE: 5
82 gaattcgatt aagtcattctt acctcttttta ttagttttttt cttataatct aatgataaca      60
84 tttttataat taatctataa accatatccc tctttggaat caaaatttat tatctactcc      120
86 tttgtagata tgttataata caagtatcag atctgggaga ccacaacggt ttcccactag      180
88 aaataatttt gttaaacttt agaaaggaga tatacgcatg caggatatct ctagaatgga      240
90 tccggctgct aacaaagccc gaaaggaagc tgagttggct gctgccaccg ctgagcaata      300
92 actagcataa ccccttgggg cctctaaacg ggtcttgagg ggttttttgc tgaaaggagg      360
94 aactatatcc ggatgacctg caggcaagct ctagaatcga tacgattttg aagtggcaac      420
96 agataaaaaa aagcagttta aaattggttc tgaactttta aaacaagcaa atacaatcat      480
98 tgtcgcaaca gatagcgaca gagaaggcga aaacattgcc tggtcgatca ttcataaaagc      540
100 aaatgccttt tctaaagata aaacgtataa aagactatgg atcaatagtt tagaaaaaga      600
102 tgtgatccgt agcgggttttc aaaatttgca accaggaatg aattactatc ctttttatca      660
104 agaagcgcaa aagaaaaacg aaatgatata ccaatcagtg caaaaaaga tataatggga      720
106 gataagacgg ttctgtgttcg tgcgtgacttg caccatatca taaaaatcga aacagcaaag      780
108 aatggcggaa acgtaaaaga agttatggaa ataagactta gaagcaaact taagagtgtg      840
110 ttgatagtgc agtatcttaa aattttgtat aataggaatt gaagttaaatt tagatgctaa      900
112 aaatttgtaa ttaagaagga gtgattacat gaacaaaaat ataaaatatt ctcaaaactt      960
114 tttaacgagt gaaaaagtac tcaaccaaatt aataaaacaa ttgaatttaa aagaaaccga      1020
116 taccgtttac gaaattggaa caggtaaagg gcatttaacg acgaaactgg ctaaaaataag      1080
118 taaacaggta acgtctattg aattagacag tcatctattc aacttatcgt cagaaaaatt      1140
120 aaaactgaat actcgtgtca ctttaattca ccaagatatt ctacagtttc aattccctaa      1200
122 caaacagagg tataaaattg ttgggagtat tccttaccat ttaagcacac aaattattaa      1260
124 aaaagtgggt ttgaaagccc atgcgtctga catctatctg attggtgaag aaggattcta      1320
126 caagcgtaac ttggatatcc accgaacact aggggttgctc ttgcacactc aagtctcgat      1380
128 tcagcaattg cttaaagctgc cagcgggaatg ctttcatcct aaaccaaag taaacagtgt      1440
130 ctttaataaaa cttaccgcgc ataccacaga tgttccagat aaatattgga agctatatac      1500
132 gtactttggt tcaaaatggg tcaatcgaga atatcgtaaa ctgtttacta aaaatcagtt      1560
134 tcatcaagca atgaaacacg ccaaagtaaa caatttaagt accgttactt atgagcaagt      1620
136 attgtctatt tttaatagtt atctattatt taacgggagg aaataattct atgagtcgct      1680
138 tttgtaaaatt tggaaagtta cacgttacta aagggaatgt agataaatta ttaggtatac      1740
140 tactgacagc ttccaaggag ctaaagaggt ccctagcgct cttatcatgg ggaagctcgg      1800
142 atcatatgca agacaaaata aactcgcaac agcacttgga gaaatgggac gaatcgagaa      1860
144 aaccctcttt acgctggatt acatatctaa taaagccgta aggagacggg ttcaaaaagg      1920
146 tttaataaaa ggagaagcaa tcaatgcatt agctagaact atattttttg gacaacgtgg      1980
148 agaattttaga gaacgtgctc tccaagacca gttacaaaga gctagtgcac taaacataat      2040
150 tattaacgct ataagtgtgt ggaacactgt atatatggaa aaagccgtag aagaattaaa      2100
152 agcaagagga gaatttagag aagatttaat gccatatgcy tggccgttag gatgggaaca      2160
154 tatcaatttt cttggagaat acaaatttga aggattacat gacactgggc aaatgaattt      2220
156 acgtcccttta cgtataaaaag agccgtttta ttcttaatat aacggctctt tttatagaaa      2280
158 aaatcccttag cgtggttttt ttccgaaatg ctggcggtag cccaagaatt agaaatgagt      2340
160 agatcaaatt attcacgaat agaatcagga aaatcagatc caaccataaa aacactagaa      2400

```

RAW SEQUENCE LISTING

DATE: 08/21/2001

PATENT APPLICATION: US/09/838,718A

TIME: 08:14:11

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF3\08212001\I838718A.raw

162	caaattgcaa	agttaactaa	ctcaacgcta	gtagtggatt	taatcccaaa	tgagccaaca	2460
164	gaaccagagc	cagaaacaga	atcagaacaa	gtaacattgg	atthagaaat	ggaagaagaa	2520
166	aaaagcaatg	acttcgtgtg	aataatgcac	gaaatcgttg	cttatttttt	tttaaaagcg	2580
168	gtataactaga	tataacgaaa	caacgaactg	aatagaaacg	aaaaaagagc	catgacacat	2640
170	ttataaaaatg	tttgacgaca	ttttataaat	gcatagcccg	ataagattgc	caaaccaacg	2700
172	cttatcagtt	agtcagatga	actcttcctt	cgtaagaagt	tattttaatta	actttgtttg	2760
174	aagacggtat	ataaccgtac	tatcattata	tagggaaatc	agagagtttt	caagtatcta	2820
176	agctactgaa	tttaagaatt	gttaagcaat	caatcggaag	tcgtttgatt	gctttttttg	2880
178	tattcattta	tagaaggtgg	agtttgatg	aatcatgatg	aatgtaaaac	ttatataaaa	2940
180	aatagtttat	tgagagataag	aaaattagca	aatatctata	cactagaaac	gtttaagaaa	3000
182	gagttagaaa	agagaaatat	ctacttagaa	acaaaatcag	ataagtattt	ttcttcggag	3060
184	ggggaagatt	atatatataa	gttaatagaa	aataacaaaa	taattttattc	gattagtggg	3120
186	aaaaaattga	cttataaagg	aaaaaaatct	ttttcaaaac	atgcaatatt	gaaacagttg	3180
188	aatgaaaaag	caaaccaagt	taattaaaca	acctatttta	taggatttat	aggaaaggag	3240
190	aacagctgaa	tgaatatccc	ttttgttgta	gaaactgtgc	ttcatgacgg	cttggttaaag	3300
192	tacaaattta	aaaatagtaa	aattcgctca	atcactacca	agccaggtaa	aagcaaaggg	3360
194	gctatttttg	cgtatcgctc	aaaatcaagc	atgattggcg	gtcgtggtgt	tgttctgact	3420
196	tccgaggaag	cgattcaaga	aaatcaagat	acatttacac	attggacacc	caacgtttat	3480
198	ctttatggaa	cgtatgcaga	cgaaaacggt	tcatacacga	aaggacattc	tgaaaacaat	3540
200	ttaagacaaa	tcaatacctt	ctttattgat	tttgatattc	acacggcaaa	agaaactatt	3600
202	tcagcaagcg	atatttttaac	aacgcgtatt	gatttagggt	ttatgcctac	tatgattatc	3660
204	aaatctgata	aaggttatca	agcatatttt	gttttagaaa	cgccagtcta	tgtgacttca	3720
206	aaatcagaat	ttaaatctgt	caaagcagcc	aaaataattt	cgcaaaatat	ccgagaatat	3780
208	tttggaaggt	ctttgccagt	tgatctaacg	tgtaatcatt	ttggtattgc	tcgcatacca	3840
210	agaacggaca	atgtagaatt	ttttgatcct	aattaccggt	attctttcaa	agaatggcaa	3900
212	gattggtctt	tcaaacaaac	agataataag	ggctttactc	gttcaagtct	aacggtttta	3960
214	agcggtagag	aaggcaaaaa	acaagtagat	gaaccctggt	ttaatctctt	attgcacgaa	4020
216	acgaaatttt	caggagaaaa	gggtttaata	gggcgtaata	acgtcatggt	taccctctct	4080
218	ttagcctact	ttagttcagg	ctattcaatc	gaaacgtgcg	aatataatat	gtttgagttt	4140
220	aataatcgat	tagatcaacc	cttagaagaa	aaagaagtaa	tcaaaattgt	tagaagtgcc	4200
222	tattcagaaa	actatcaagg	ggctaataag	gaatacatta	ccattctttg	caaagcttgg	4260
224	gtatcaagtg	atttaaccag	taaagattta	tttgtccgtc	aaggggtggt	taaattcaag	4320
226	aaaaaaagaa	gcgaacgtca	acgtgttcat	ttgtcagaat	ggaaagaaga	tttaattggct	4380
228	tatattagcg	aaaaaagcga	tgtatacaag	ccttattttg	tgacgaccaa	aaaagagatt	4440
230	agagaagtgc	taggcattcc	tgaacggaca	ttagataaat	tgctgaaggt	actgaaggcg	4500
232	aatcaggaaa	ttttctttta	gattaaacca	ggaagaaatg	gtggcattca	acttgctagt	4560
234	gttaaatcat	tgttgctatc	gatcattaaa	gtaaaaaaag	aagaaaaaga	aagctatata	4620
236	aaggcgctga	caaattcttt	tgacttagag	catacattca	ttcaagagac	tttaaacaaag	4680
238	ctagcagaac	gccctaaaaac	ggacacacaa	ctcgattttg	ttagctatga	tacaggctga	4740
240	aaataaaacc	cgcactatgc	cattacattt	atatctatga	tacgtgtttg	ttttttcttt	4800
242	gctgttttag	gaatgattag	cagaaatata	cagagtaaga	ttttaattaa	ttattagggg	4860
244	gagaaggaga	gagtagcccg	aaaactttta	gttggtttg	actgaacgaa	gtgagggaaa	4920
246	ggctactaaa	acgtcgaggg	gcagtgaag	cgaagcgaac	acttgatttt	tttaattttct	4980
248	atcttttata	ggtcattaga	gtatacttat	ttgtcctata	aactatttag	cagcataata	5040
250	gattttattga	ataggtcatt	taagttgagc	atattagagg	aggaaaatct	tgagagaaata	5100
252	tttgaagaac	ccgattacat	ggattggatt	agttcttggt	gttacgtggt	ttttaactaa	5160
254	aagtagtgaa	tttttgattt	ttggtgtgtg	tgtcttggtg	ttagtatttg	ctagtcaaaag	5220
256	tgattaaata						5230
259	<210> SEQ ID NO: 6						

RAW SEQUENCE LISTING

DATE: 08/21/2001

PATENT APPLICATION: US/09/838,718A

TIME: 08:14:11

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF3\08212001\I838718A.raw

```

260 <211> LENGTH: 5906
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Description of Artificial Sequence: plamsid pTlNX
267 <400> SEQUENCE: 6
268 gaattcgatt aagtcattctt acctctttta ttagtttttt cttataatct aatgataaca      60
270 tttttataat taatctataa accatatccc tctttggaat caaaatttat tatctactcc      120
272 tttgtagata tggtataata caagtatcag atctgggaga ccacaacggt ttcccactag      180
274 aaataatttt gtttaacttt agaaaggaga tatacgcatg aaaaaaaga ttatctcagc      240
276 tattttaatg tctacagtca tactttctgc tgcagccccg ttgtcagggtg tttacgccgg      300
278 cgacggatcc aaaagaggaa gacaataaca agcctggcaa agaagacaat aacaagcctg      360
280 gcaaagaaga caataacaag cctggcaaaag aagacaacaa caagcctggc aaagaagaca      420
282 acaacaagcc tggtaaagaa gacaacaaca agcctggcaa agaagacggc aacaagcctg      480
284 gtaaagaaga caacaaaaaa cctggtaaag aagatggcaa caagcctggg aaagaagaca      540
286 acaaaaaacc tggtaaagaa gacggcaaca agcctggcaa agaagatggc acaaaacctg      600
288 gtaaagaaga tggtaacgga gtacatgtcg ttaaacctgg tgatacagta aatgacattg      660
290 caaaagcaaa cggcactact gctgacaaaa ttgctgcaga taacaaatta gctgataaaa      720
292 acatgatcaa acctgggtcaa gaacttgttg ttgataagaa gcaaccagca aacctgcag      780
294 atgctaacaa agctcaagca ttaccagaaa ctggcgaaga aaatccattc atcgggtacaa      840
296 ctgtatttgg tggattatca ttagccttag gtgcagcggt attagctgga cgtcgtcgcg      900
298 aactataact agtagatccg gctgctaaca aagcccgaaa ggaagctgag ttggctgctg      960
300 ccaccgctga gcaataacta gcataacccc ttggggcctc taaacgggtc ttgagggggt      1020
302 ttttgctgaa aggaggaact atatccggat gacctgcagg caagctctag aatcgatacg      1080
304 attttgaagt ggcaacagat aaaaaaaagc agtttaaaat tgttgctgaa cttttaaaac      1140
306 aagcaaatac aatcattgtc gcaacagata gcgacagaga aggcgaaaac attgcctggt      1200
308 cgatcattca taaagcaaat gccttttcta aagataaaac gtataaaaga ctatggatca      1260
310 atagttttaga aaaagatgtg atccgtagcg gttttcaaaa tttgcaacca ggaatgaatt      1320
312 actatccctt ttatcaagaa gcgcaaaaga aaaacgaaat gatacaccaa tcagtgcaaa      1380
314 aaaagatata atgggagata agacgggtcg tgttcgtgct gacttgcaac atatcataaa      1440
316 aatcgaaaca gcaaagaatg gcggaacgtg aaaagaagtt atggaaataa gacttagaag      1500
318 caaacttaag agtgtgttga tagtgcagta tcttaaaatt ttgtataata ggaattgaag      1560
320 ttaaatttaga tgctaaaaat ttgtaattaa gaaggagtga ttacatgaac aaaaatataa      1620
322 aatattctca aaacttttta acgagtgaag aagtactcaa ccaataataa aaacaattga      1680
324 atttaaaaga aaccgatacc gtttacgaaa ttggaacagg taaagggcat ttaacgacga      1740
326 aactggctaa aataagtaaa caggtaacgt ctattgaatt agacagtcac ctattcaact      1800
328 tatcgtcaga aaaattaaaa ctgaatactc gtgtcacttt aattcaccaa gatattctac      1860
330 agtttcaatt ccctaacaaa cagaggtata aaattgttgg gagtattcct taccatttaa      1920
332 gcacacaaat tattaaaaaa gtggtttttg aaagccatgc gtctgacatc tatctgattg      1980
334 ttgaagaagg attctacaag cgtaccttgg atattcaccc aacactaggg ttgctcttgc      2040
336 aactcaagt ctcgattcag caattgctta agctgccagc ggaatgcttt catcctaaac      2100
338 caaaagtaaa cagtgtctta ataaaactta cccgccatac cacagatgtt ccagataaat      2160
340 attggaagct atatacgtac tttgtttcaa aatgggtcaa tcgagaatat cgtcaactgt      2220
342 ttactaaaaa tcagtttcat caagcaatga aacacgcaa agtaaacaa ttaagtaccg      2280
344 ttacttatga gcaagtattg tctattttta atagttatct attatttaac gggaggaaat      2340
346 aattctatga gtcgcttttg taaatttggg aagttacacg ttactaaagg gaatgtagat      2400
348 aaattattag gtatactact gacagcttcc aaggagctaa agaggtccct agcgtcttta      2460
350 tcatggggaa gctcggatca tatgcaagac aaaataaact cgcaacagca cttggagaaa      2520
352 tgggacgaat cgagaaaacc ctctttacgc tggattacat atctaataaa gccgtaagga      2580

```

RAW SEQUENCE LISTING

DATE: 08/21/2001

PATENT APPLICATION: US/09/838,718A

TIME: 08:14:11

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF3\08212001\I838718A.raw

354	gacgggttca	aaaagggttta	aataaaggag	aagcaatcaa	tgcattagct	agaactatat	2640
356	tttttggaca	acgtggagaa	tttagagaac	gtgctctcca	agaccagtta	caaagagcta	2700
358	gtgcactaaa	cataattatt	aacgctataa	gtgtgtggaa	cactgtatat	atggaaaaag	2760
360	ccgtagaaga	attaaaagca	agaggagaat	ttagagaaga	tttaatgcca	tatgcgtggc	2820
362	cgttaggatg	ggaacatata	aattttcttg	gagaatacaa	atttgaagga	ttacatgaca	2880
364	ctgggcaa	gaatttacgt	ccttttacgt	taaaagagcc	gttttattct	taatataacg	2940
366	gctcttttta	tagaaaaaat	ccttagcgtg	gtttttttcc	gaaatgctgg	cggtagccca	3000
368	agaattagaa	atgagtagat	caaattattc	acgaatagaa	tcaggaaaat	cagatccaac	3060
370	cataaaaaa	ctagaacaaa	ttgcaaagtt	aactaactca	acgctagtag	tggattta	3120
372	cccaaatgag	ccaacagaa	cagagccaga	aacagaatca	gaacaagtaa	cattggattt	3180
374	agaaatggaa	gaagaaaaaa	gcaatgactt	cgtgtgaata	atgcacgaaa	tcgttgctta	3240
376	ttttttttta	aaagcgggat	actagatata	acgaaacaac	gaactgaata	gaaacgaaaa	3300
378	aagagccatg	acacatttat	aaaatgtttg	acgacatttt	ataaatgcat	agcccataa	3360
380	gattgccaaa	ccaacgctta	tcagttagtc	agatgaactc	ttccctcgta	agaagtattt	3420
382	taattaactt	tgtttgaaga	cggatatata	ccgtactata	attatatagg	gaaatcagag	3480
384	agttttcaag	tatctaagct	actgaattta	agaattgtta	agcaatcaat	cggaaatcgt	3540
386	ttgattgctt	tttttgtatt	catttataga	aggtggagtt	tgtatgaatc	atgatgaatg	3600
388	taaaacttat	ataaaaaata	gtttattgga	gataagaaaa	ttagcaata	tctatacact	3660
390	agaaacgttt	aagaaagagt	tagaaaagag	aaatatctac	ttagaaacaa	aatcagataa	3720
392	gtattttttt	tcggaggggg	aagattatat	atataagtta	atagaaaaata	acaaaaata	3780
394	ttatttcgatt	agtggaaaaa	aattgactta	taaaggaaaa	aaatcttttt	caaaacatgc	3840
396	aattattgaaa	cagttgaatg	aaaaagcaaa	ccaagtta	taaacaacct	attttatagg	3900
398	atttatagga	aaggagaaca	gctgaatgaa	tatccctttt	gtttagataa	ctgtgcttca	3960
400	tgacggcttg	ttaaagtaca	aattttaaaa	tagtaaaatt	cgctcaatca	ctaccaagcc	4020
402	aggtaaaagc	aaaggggcta	tttttgcgta	tcgctcaaaa	tcaagcatga	ttggcggtcg	4080
404	tggtgttggt	ctgacttccg	aggaagcgat	tcaagaaaat	caagatacat	ttacacattg	4140
406	gacaccaaac	gtttatcggt	atggaacgta	tgcagacgaa	aaccgttcat	acacgaaagg	4200
408	acattctgaa	aacaatttta	gacaaatcaa	taccttcttt	attgattttg	atattcacac	4260
410	ggcaaaaagaa	actatttcag	caagcgatat	tttaacaacc	gctattgatt	taggttttat	4320
412	gcctactatg	attatcaaat	ctgataaagg	ttatcaagca	tattttgttt	tagaaacgcc	4380
414	agtctatgtg	acttcaaaat	cagaatttta	atctgtcaaa	gcagccaaaa	taatttcgca	4440
416	aaatatccga	gaatatattg	gaaagtcttt	gccagttgat	ctaactgtga	atcattttgg	4500
418	tattgctcgc	ataccaagaa	cggacaatgt	agaatttttt	gatcctaatt	accgttatct	4560
420	tttcaaagaa	tggcaagatt	ggtctttcaa	acaaaacagat	aataagggct	ttactcgttc	4620
422	aagtctaacg	gttttaagcg	gtacagaagg	caaaaaacaa	gtagatgaac	cctgggttaa	4680
424	tctcttattg	cacgaaacga	aattttcagg	agaaaagggt	ttaatagggc	gtaataacgt	4740
426	catgtttacc	ctctctttag	cctactttag	ttcaggctat	tcaatcgaaa	cgtgcgaata	4800
428	taatattgtt	gagtttaata	atcgattaga	tcaaccctta	gaagaaaaag	aagtaatcaa	4860
430	aattgttaga	agtgcctatt	cagaaaacta	tcaaggggct	aatagggaat	acattaccat	4920
432	tctttgcaaa	gcttggttat	caagtgattt	aaccagtaaa	gatttatttg	tccgtcaagg	4980
434	gtggttttaa	ttcaagaaaa	aaagaagcga	acgtcaacgt	gttcatttgt	cagaatggaa	5040
436	agaagattta	atggcttata	ttagcgaaaa	aagcgatgta	tacaagcctt	atttagtgac	5100
438	gacaaaaaaa	gagattagag	aagtgcctag	cattcctgaa	cggacattag	ataaattgct	5160
440	gaaggctact	aaggcgaatc	aggaaatttt	ctttaagatt	aaaccaggaa	gaaatggtgg	5220
442	cattcaactt	gctagtgtta	aatcattgtt	gctatcgatc	attaaagtaa	aaaaagaaga	5280
444	aaaagaaagc	tatataaagg	cgctgacaaa	ttcttttgac	ttagagcata	cattcattca	5340
446	agagacttta	aacaagctag	cagaacgccc	taaaacggac	acacaactcg	atttgtttag	5400
448	ctatgatata	ggctgaaaat	aaaaccgcga	ctatgccatt	acatttatat	ctatgatagc	5460
450	tgtttgtttt	ttctttgctg	tttagcgaat	gattagcaga	aatatacaga	gtaagatttt	5520

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/838,718A

DATE: 08/21/2001

TIME: 08:14:12

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF3\08212001\I838718A.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date